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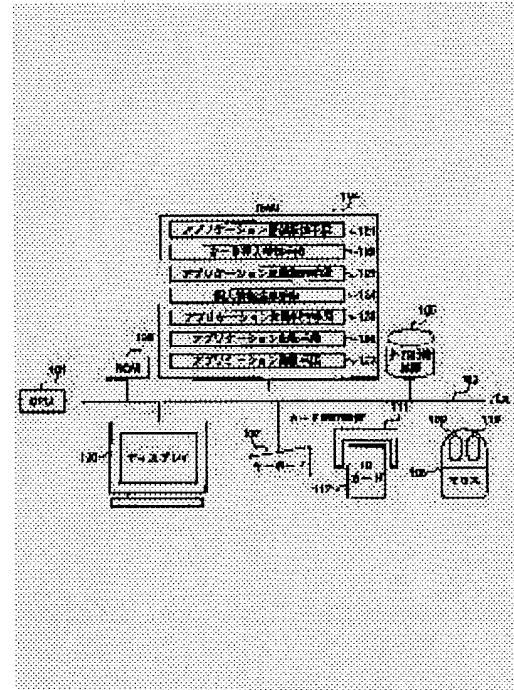
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(54) INFORMATION PROCESSOR AND START CONTROL METHOD OF APPLICATION PROGRAM

(57)Abstract:

PROBLEM TO BE SOLVED: To maintain the security even in the case where many kinds of applications are used commonly by unspecified many persons.

SOLUTION: At the time of detecting the insertion of an ID card to a card reader 111 and receiving the starting instruction of an application program of a user by an application program starting indication means 123, an application starting judging means 125 compares information on the post of a user read from an ID card 112 and the starting control information of each application program stored in an application program information storing means 121 with each other and an application starting judging means 125 judges the propriety of the starting of the application program.



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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] Especially this invention relates to the information processor which determines the propriety of a startup of each application program of a computer system about an information processor based on the information memorized by the storage for identification of pocket molds, such as an ID card.

[0002]

[Description of the Prior Art] In recent years, generally it is performed by development of computer application that two or more users share one set of a computer system. Thus, when two or more users share one set of a computer system, each user's information (User ID, password, etc.) is beforehand registered into the computer system and a user logs in to a computer system, he is trying to determine the propriety of use of each application program based on said registered information.

[0003]

[Problem(s) to be Solved by the Invention] However, when many and unspecified users share one set of a computer system, each user's information cannot be beforehand registered into a computer system. For this reason, since it became that to which the application program to offer was limited in spite of having limited the application program registered into one set of a computer system from consideration of security and having been a computer system for many users for this reason, since the application program with which use should be permitted for every user could not be determined, there was un-arranging [which is referred to as being unable to use a computer system effectively].

[0004] This invention aims at offering the information processor which can offer use of the application program of varieties, maintaining security, also when it is made in order to solve the above-mentioned trouble, and one computer system is considered as many and unspecified common use.

[0005]

[Means for Solving the Problem] In order to attain the above-mentioned purpose, invention according to claim 1 In the information processor which determines motive propriety for every application program with reference to the information from the storage of a pocket mold that the information about a user is memorized An attribute information maintenance means to hold the information which shows the attribute of those who can start each application program, It is characterized by having a starting authorization decision means to judge whether the information from said pocket type of storage and the information held at said maintenance means should be contrasted, and starting of each application program should be permitted.

[0006] Information to which said attribute information maintenance means holds invention according to claim 2 in the information processor of the claim 1 above-mentioned publication is characterized by being the executive of those to whom starting of the application program concerned should be permitted.

[0007] It is characterized by judging whether invention according to claim 3 should permit starting of the application program concerned, when concrete actuation for a user to start each application program,

as for said starting authorization decision means is performed in an information processor above-mentioned claim 1 or given in two.

[0008] It is characterized by judging whether in an information processor above-mentioned claim 1 or given in two, invention according to claim 4 should permit starting of each application program, when said starting authorization decision means reads the information about a user in said pocket type of storage.

[0009] Invention according to claim 5 is equipped with a display means to display all available application programs, in the information processor of the claim 3 above-mentioned publication, and a user is characterized by performing concrete actuation for starting an application program by choosing the application program which should start from all the application programs displayed on said display means.

[0010] in the information processor of the claim 4 above-mentioned publication, as for invention according to claim 6, said starting authorization decision means should permit starting based on the information from said pocket type of storage -- ** -- it is characterized by having a display means to display only the judged application program.

[0011]

[Embodiment of the Invention] Below, the gestalt of operation of this invention is explained with reference to a drawing.

[0012] Drawing 1 is the block diagram showing the outline configuration of the information processor concerning the gestalt of one operation of this invention.

[0013] This information processor mainly consists of data buses 102 which connect CPU (central processing unit)101, ROM (read-only memory)103, RAM (random access memory)104, external storage 105, a display unit 106, a keyboard 107, a mouse 108, card readers 111, and these devices mutually.

[0014] CPU101 consists of a microprocessor etc. and performs control of the whole information processor. A data bus 102 carries transfer of the various data between each component of an information processor. ROM103 stores a control program, fixed data, etc. RAM104 is used as a work area for CPU101 to perform various programs.

[0015] External storage 105 stores a program file and a data file. A display unit 106 displays various data etc. A keyboard 107 is used in order to perform the input of various data or a command. A mouse 108 is used in order to perform actuation of the cursor displayed on a display unit 106 etc. A mouse button 109,110 is used in order to perform command input relevant to the directions location of cursor etc.

[0016] Moreover, an application information storage means 121 (attribute information maintenance means) to memorize the starting control information which shows the attribute of those to whom the above RAM 104 can start each application program, A card insertion detection means 122 to detect that ID card 112 was inserted in the card reader 111, An application starting directions means 123 to receive starting directions of each application program, An individual humanity news reading means 124 to read the individual humanity news memorized by ID card 112, The starting control information memorized by the application information storage means 121 and the individual humanity news read by the individual humanity news reading means 124 are contrasted. An application starting judging means 125 (starting authorization decision means) to judge the propriety of starting of each application program, An application starting means 126 to permit starting of an application program based on the judgment of the application starting judging means 125, Based on the judgment of the application starting judging means 125, an application starting control means 127 to control starting of an application program is included.

[0017] Drawing 2 is the table Fig. showing the configuration of the application managed table on which the starting control information of each application program memorized by the application information storage means 121 was registered. It enables it to start those to whom, as for "project management", those to whom, as for a "budget control", those to whom an application program "a personnel management" has an executive more than the manager have an executive more than a section chief have

an executive more than the chief in the gestalt of this operation, respectively, as shown in this drawing. Moreover, it enables it, as for each application program of "in-house mail", a "word processor", and a "spreadsheet", to start more than general, i.e., all users.

[0018] Drawing 3 is the table Fig. showing the configuration of the individual humanity news memorized by ID card 112.

[0019] The information ID card 112 which each user possesses indicates the user's name, a personnel code, and an executive to be as shown in this drawing (a) is memorized. This drawing (b) is a table Fig. showing the contents of the individual humanity news memorized by the ID card of the user whose executive is "general", and this drawing (c) is a table Fig. showing the contents of the individual humanity news memorized by the ID card of the user whose executive is the "manager."

[0020] Next, actuation of an information processor is explained with reference to drawing 4 - drawing 7.

[0021] Drawing 4 is a flow chart which shows the processing performed in an information processor. Drawing 5 - drawing 7 are the explanatory views showing the example of a display of the display unit 106 when a user tries to start an application program. In addition, the program for performing processing shown in drawing 4 is mounted in the control program of an application menu as a part of device of a computer system. By the control program of this application menu, an application menu as shown in (a) of drawing 5 - drawing 7 is displayed on the application window 201 displayed on a display unit 106, and it will be in the condition in which starting directions of the application program by the user are possible. After the processing shown in drawing 4 when starting of an application program is directed is started and this processing is completed in this condition, an application menu is again displayed on a display unit 106, and it returns to the condition in which starting directions of the application program by the user are possible.

[0022] In drawing 4, if starting directions of the application program by the keyboard 107 or the mouse 108 are received with the application starting directions means 123 (step S501), it will be judged whether ID card 112 was inserted in the card reader 111 by the card insertion detection means 122 (step S502).

[0023] When ID card 112 is not inserted in the card reader 111, starting of an application program is controlled with the application control means 127 (step S505), and processing is ended. when ID card 112 is inserted, individual humanity news is read in ID card 112 by the individual humanity news reading means (step S503), this reading *** personal information and the application managed table registered into the application information storage means 121 are contrasted, and it is judged whether the application program concerned should be started (step S504).

[0024] Here, when it is judged that an application program is started by the application starting means 126 (step S505), and the application program concerned should not be started when it is judged that the application program concerned may be started, starting of an application program is controlled with the application control means 127 (step S505), and processing is ended.

[0025] Drawing 5 is the explanatory view showing the example of a display of the display unit 106 when the user whose executive which possesses ID card 112 as shown in drawing 3 (b) is "general" tries to start an application program "a budget control" without starting authority.

[0026] A user inserts ID card 112 in a card reader 111, and if starting of an application program is directed by the application menu currently displayed on the application window 201 shown in drawing 5 (a), the control program of an application menu will start the processing shown in drawing 4.

[0027] That is, if starting directions of an application program are received (step S501), it will be judged whether ID card 112 is inserted in the card reader 111 (step S502). When ID card 112 is not inserted in the card reader 111, starting of an application program is controlled (step S506). When ID card 112 is inserted The information which shows the executive of the user who says individual humanity news "is general" in read in (step S503) and this individual humanity news from ID card 112 of a data configuration as shown in drawing 3 (b), It is judged whether the starting control information of the application program "a budget control" read from the application managed table within the application information storage means 121 should be contrasted, and the application program concerned should be

started (step S504). Consequently, it is judged that an application program "a budget control" should not start and starting of an application program "a budget control" is controlled (refer to step S506 and drawing 5 (b)).

[0028] Moreover, drawing 6 is the explanatory view showing the example of a display of the display unit 106 when the user whose executive is similarly "general" tries to start an application program "a spreadsheet" with starting authority.

[0029] A user inserts ID card 112 in a card reader 111, and if starting of an application program is directed by the application menu currently displayed on the application window 201 shown in drawing 6 (a), the control program of an application menu will start the processing shown in drawing 4.

[0030] That is, if starting directions of an application program are received (step S501), it will be judged whether ID card 112 is inserted in the card reader 111 (step S502). When ID card 112 is not inserted in the card reader 111, starting of an application program is controlled (step S506). When ID card 112 is inserted in the card reader 111 The information which shows the executive of the user who says individual humanity news "is general" in read in (step S503) and this individual humanity news from ID card 112 of a data configuration as shown in drawing 3 (b), It is judged whether the starting control information of the application program "a spreadsheet" read from the application managed table within the application information storage means 121 should be contrasted, and the application program concerned should be started (step S504). Consequently, it is judged that an application program "a spreadsheet" may start and an application program "a spreadsheet" is started (refer to step S505 and drawing 6 (b)).

[0031] Furthermore, drawing 7 is an explanatory view in which the user whose executive is the "manager" shows the example of a display of the display unit 106 at the time of starting an application program "a budget control" with starting authority again.

[0032] A user inserts ID card 112 in a card reader 111, and if starting of an application program is directed by the application menu currently displayed on the application window 201 shown in drawing 7 (a), the control program of an application menu will start the processing shown in drawing 4.

[0033] That is, if starting directions of an application program are received (step S501), it will be judged whether ID card 112 is inserted in the card reader 111 (step S502). When ID card 112 is not inserted in the card reader 111, starting of an application program is controlled (step S506). When ID card 112 is inserted in the card reader 111 The information which shows the executive of the user who calls individual humanity news the "manager" in read in (step S503) and this individual humanity news from ID card 112 of a data configuration as shown in drawing 3 (c), It is judged whether the starting control information of the application program "a budget control" read from the application managed table within the application information storage means 121 should be contrasted, and the application program concerned should be started (step S504). Consequently, it is judged that an application program "a budget control" may start and an application program "a budget control" is started (refer to step S505 and drawing 6 (b)).

[0034] Use of the application program of varieties can be offered maintaining security, also when one computer system is considered as common use of the whole configuration staff of a company organization, since the propriety of the startup can be determined for every application program using the information which shows a user's executive memorized by ID card 112 according to the information processor of the gestalt of this operation as stated above.

[0035] Next, the gestalt of operation of the 2nd of this invention is explained with reference to drawing 8 and drawing 9. In addition, since the hard configuration of the information processor of the gestalt of this operation is the same as that of the gestalt of implementation of the above 1st and the configuration of the application managed table on which the contents of the individual humanity news memorized by ID card 112 used and the starting control information of each application program were registered is also the same as that of the gestalt of implementation of the above 1st, drawing 1 - drawing 3 are diverted and explained.

[0036] Drawing 8 is a flow chart which shows the processing performed in an information processor. Drawing 9 is the explanatory view showing the example of a display of the application menu displayed

corresponding to each user's individual humanity news. In addition, the program for performing processing shown in drawing 8 is mounted in the control program of an application menu as a part of device of a computer system.

[0037] First, it is judged whether ID card 112 was inserted in the card reader 111 by the card insertion detection means (step S901). if it is detected that ID card 112 was inserted in the card reader 111, individual humanity news will read in ID card 112 with the individual humanity news reading means 124 -- having (step S902) -- The information which shows the executive in the individual humanity news read the account of a top with the application starting judging means 125, and the starting control information of the application managed table registered into the application information storage means 121 are contrasted. The application program which the user can start is displayed on a display unit 106 as an application menu (step S903).

[0038] For example, when an executive as ID card 112 inserted in the card reader 111 shows to drawing 3 (b) belongs to a "general" user, as shown in drawing 9 (a), "in-house mail", a "word processor", and each application program name of a "spreadsheet" are displayed on the application window 201 of a display unit 106 as an application menu.

[0039] Moreover, when an executive as ID card 112 inserted in the card reader 111 shows to drawing 3 (c) belongs to the user of the "manager", as shown in drawing 9 (b), a "personnel management", a "budget control", "project management", "in-house mail", a "word processor", and each application program name of a "spreadsheet" are displayed on the application window 201 as an application menu.

[0040] The application program which received the starting directions from a user with the application program displayed on drawing 8 by the application menu of return and the application window 201 is started by the application starting means 126, and ends processing.

[0041] Thus, in the gestalt of operation of *** 2, since only the application program which each user can start is displayed on a display unit 106, there is no un-arranging [of confusing a user], therefore a user can be provided with a more comfortable operating environment.

[0042]

[Effect of the Invention] The information which shows the attribute of those who can start each application program which an attribute information maintenance means holds according to the information processor according to claim 1 as stated above, Since the information which shows the attribute of the user concerned memorized by the storage of a pocket mold is contrasted and a starting authorization decision means judges whether starting of each application program should be permitted Use of the application program of varieties can be offered maintaining security, also when one computer system is considered as many and unspecified common use.

[0043] According to the information processor according to claim 2, it can offer use of the application program of varieties, maintaining security, also when one computer system is considered as common use of all the staffs of a company organization, since the information which said attribute information maintenance means holds is the executive of those who should permit a startup of the application program concerned.

[0044] According to the information processor according to claim 3, said starting authorization decision means can make a user recognize all the application programs registered into the information processor, since it judges whether starting of the application program concerned should be permitted when concrete actuation for a user to start each application program is performed.

[0045] Since it judges whether starting of each application program should be permitted when said starting authorization decision means reads in said pocket type of storage the information which shows a user's attribute, each user can make a user recognize only an available application program according to the information processor according to claim 4.

[0046] It has a display means to display all available application programs according to the information processor according to claim 5, and since a user performs concrete actuation for starting an application program by choosing the application program which should start from all the application programs displayed on said display means, he can make a user recognize all the application programs registered into the information processor.

[0047] according to the information processor according to claim 6, based on the information from said pocket type of storage, said starting authorization decision means should permit starting -- ** -- since it had a display means to display only the judged application program, each user can make a user recognize only an available application program

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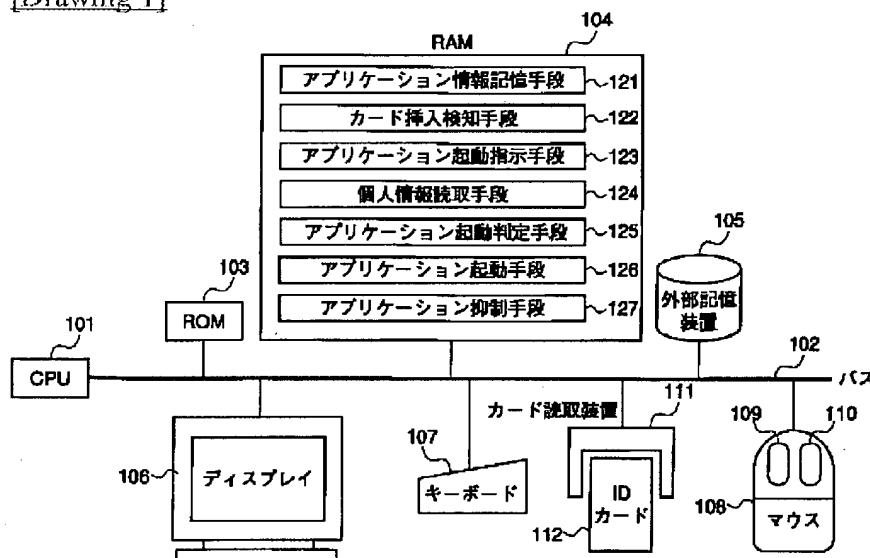
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DRAWINGS

[Drawing 2]

アプリケーション名	起動制御情報
人事管理	部長以上
予算管理	課長以上
プロジェクト管理	係長以上
社内メール	一般以上
ワープロ	一般以上
表計算	一般以上

[Drawing 1]



[Drawing 3]

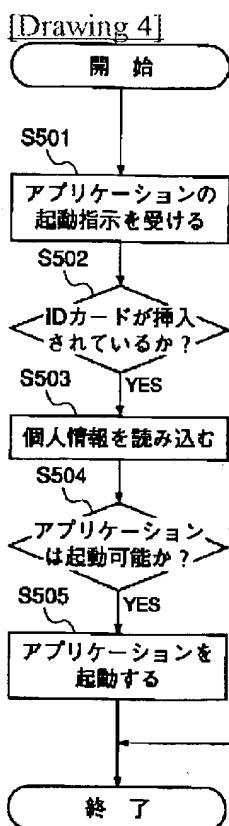
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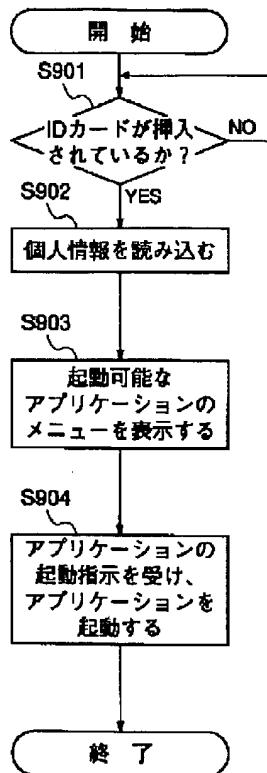
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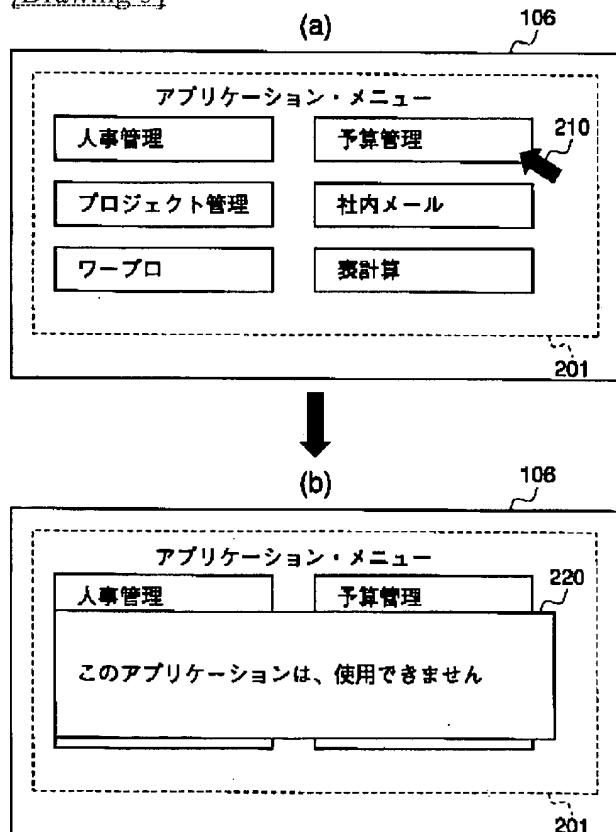
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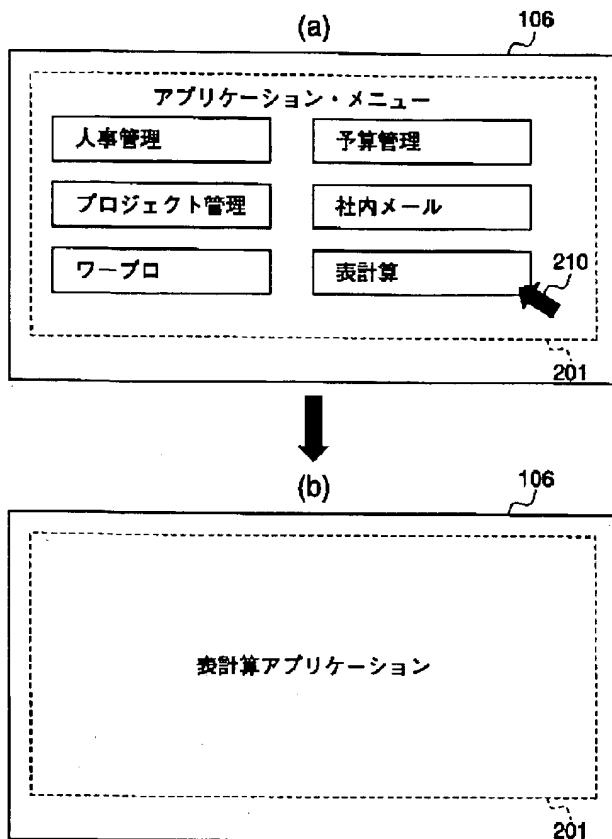
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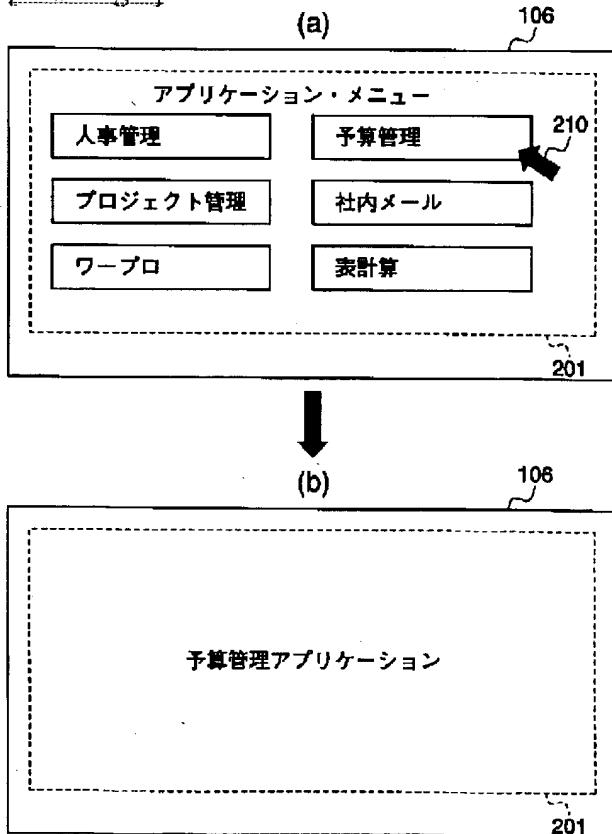
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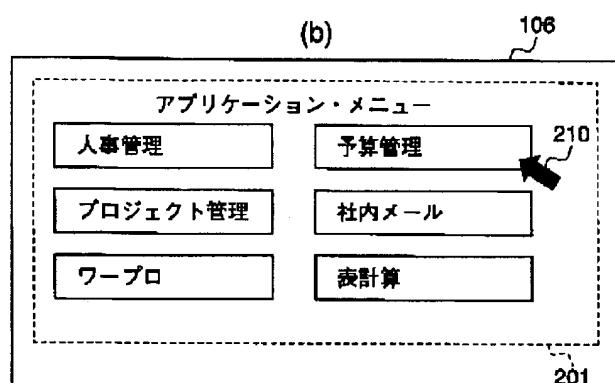
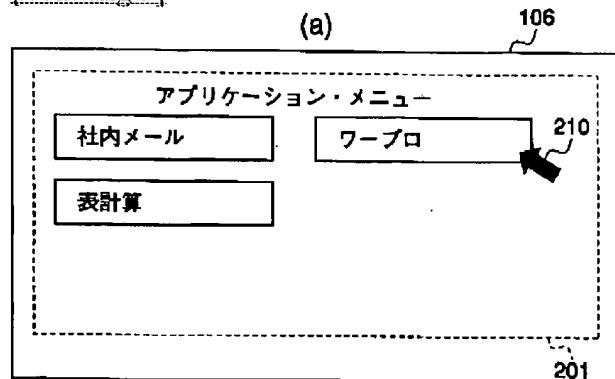
[Drawing 6]



[Drawing 7]



[Drawing 9]



[Translation done.]